UTAH LOCAL GOVERNMENTS TRUST

55 South Highway 89, North Salt Lake, UT 84054 o 801.936.6400 t 800.748.4440 f 801.936.0300 www.utahtrust.gov



Trust Accountability Program Requirements and Outline

The Trust Accountability Program provides an opportunity for Trust members to receive recognition for efforts to control losses and prevent injuries. The TAP recognition will be awarded to any member who consistently implements the policies and best practices of the TAP program. Additionally, Trust members who carry *General Liability, Property* and *Worker's Compensation* lines of insurance with the Trust will receive 5% of the member's liability premium as part of their TAP recognition. Qualifying members will demonstrate consistent implementation of these best practices by submitting the following documentation with the attached application form.

- 1) Safety Committee Documentation (Samples available)
 - a. Copies of meeting agenda from four consecutive monthly meetings during the year for which the grant is being applied.
 - b. Copies of four monthly "Executive Safety Accountability" reports (or equivalent) submitted to the governing body for the same year.
 - c. Copies of three accident investigation reports documenting identified root cause or causes and the corrective actions implemented. Two or more must detail investigations of "close call" incidents.
- 2) Adoption of a Return to Work (RTW) program. Member will be prepared to demonstrate accommodation of work restrictions if applicable to the current year (See sample).
- 3) Submit a copy of the member's MVR program and a summary of employment action taken as a result of the MVR program. (Sample available)
 - a. MVR program must cover employees or volunteers who drive member owned vehicles, or who may drive private vehicles on employer business. The MVR program should include the following:
 - i. A documented qualification for member drivers
 - ii. MVR review of all drivers upon hire and annually thereafter
 - iii. Include on the job motor vehicle incidents not reported to the Driver's License Division
- 4) If your entity owns a sewer system:
 - a. Submit a copy of your Sanitary Sewer Management Plan (SSMP)
 - b. Submit a summary of your completed manhole sewer inspection. This summary must confirm inspection of ALL manholes in the system during the year, total number of manholes in your system and dates on which inspections were conducted.
 - c. Submit your best example (with documentation) of a backup prevented as a result of manhole inspections during the current year.
 - d. Tell us in your opinion the total number of sewer system backups averted in the past year through corrections of adverse conditions identified during manhole inspections.
- 5) Documentation of Training for all Planning & Zoning/Land Use committee or board members
 - a. First Time Training available online from ULGT
 - b. Hot Topic updates available online from ULGT
 - c. Utah League of Cities and Towns / Other Training may also be accepted

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TAP Award Application

Agency	<i></i>
Mailin	g Address_
Date_	Phone Number
Person	Completing this Application
Verify	required documentation is attached and affirm qualifications met per outline.
1) Qua	lifying Coverage Liability, Work Comp and Property Coverage through ULGT
2) Safe	ty Committee Completed agendas from four consecutive monthly meetings Four completed Executive Safety Accountability Reports Three accident Investigation Reports (Including Close Call Investigations)
3) Refu	rn to Work Program
	Program adopted
	Restrictions Accommodated
4) Driv	er Qualification MVR Program
	Copy of Entity's MVR Program
	Summary of MVR Actions Taken
5) Sani	tary Sewer Management Plan (SSMP)
	Copy of your State Compliant SSMP
	Summary of 100% Manhole Inspection Program as outlined
	Details of Specific Backup Prevented
	Total Number of Sewer System Backups Prevented (estimate)
6) Plan	ning & Zoning / Land Use
	Roster of all Commission / Board Members
	Summary of Land Use Training and Dates for Each Member

Send the completed application with required documentation to:

Utah Local Governments Trust c/o Doug Folsom 55 South Highway 89 North Salt Lake, UT 84054

Safety Committee Meeting

Agenda

- Safety Moment(Current event, experience/thought)
 - a. Assign next month's safety moment to a committee member.
- 2. Review Minutes from last month
 - a. Review follow up assignments.
- 3. Sub Committee report
 - a. Auditing review
 - i. Review of restricted/light duty days of work
 - ii. Lost time injuries
 - iii. Solutions (goals) to facilitate employee's rapid return to work
 - iv. Specific assignments by department, to help accomplish goals
 - b. Policies and Procedures
 - i. Policies reviewed/corrections
 - ii. Open forum for possible input
 - c. Incident investigation
 - i. Report findings of relevant incident topics
 - ii. Take assignment to investigate as necessary
 - iii. Near miss report, incentive tied to reporting near miss
 - d. Promotions and Wellness (OPTIONAL)
 - i. Proposal of promotion(s) for month/year
 - ii. Advertising for committee's activities
 - iii. Feedback from past campaigns
 - iv. Administration's approval
- 4. Open Forum to discuss new concerns or unsafe conditions
 - a. Review safety maintenance work orders
 - i. How many were submitted/completed
 - ii. Address how to complete the remainder of unsafe conditions
 - b. Address departmental items
 - i. Assign follow up to unsafe conditions/safety work order
 - c. Open Forum to discuss new concerns or unsafe conditions
- 5. This month's safety topic: Hazard analysis, self inspection
 - a. Instructional power point/video
 - b. Distribution of sample checklists
 - c. Demonstration of walk through in a specific department





Executive Safety Accountability Report

Entity

Report Author:

Report Date: 2/7/13

Date Range: 9/1/10

To: 2/7/13

Days Since Last Recordable Accident Days Since Last Lost Time Accident Days Since Last Liability Claim
 147
 9/13/12

 556
 8/1/11

 509
 9/17/11

Date

OF NOTE THIS MONTH Accident: 1/13/2013 Employee strained his back lifting elephant into dumptruck. Liability Claim: 1/17/13 Sewer backup affecting 2 homes in the Edgewood neighborhood. LEADING INDICATORS Department Safety Audits Department Safety Meetings Management Audits Safety Topics Trained Safety Committee Meetings Monthly Goal 6 This Month 2 2 5 6 Fiscal Year 2 6 2 Safety Training Topics: Lockout Tagout, TRAILING INDICATORS OSHA Recordable Near Miss Incidents First Aid Incidents Incidents Lost Time Incidents Liability Claims Property Claims Auto Accidents Public Complaints Notices of Violation This Month This Quarter 1 2 Fiscal Year Explanation: CORRECTIVE ACTIONS Safety-Maintenance Work Orders ULGT Safety Action Register Audit Findings Public Complaints/Concerns Corrective Actions 15 6 Completed 12 4 Safety maintenance work orders were not completed due to... Explanation of Open Action Items:

CONFIDENTIAL

Supervisor Incident Investigation

This form must be completed by the supervisor,

OSHA Case #:____

All reports must be signed by the supervisor, the employee and must be bought off by the operations and the safety managers. This investigation must be completed within 3 days of the incident, and may be subject to review by our internal auditing committee.

COMPLETE FOR ALL CLAIMS: (NEAR MISS	S, FIRST AID, HOSPITALIZATION,)	
INVOLVED EMPLOYEE INFORMATION: Name	Area / Department:	Incident Date: / /
DESCRIBE HOW THE INCIDENT OCCURRE applicable)	D: (BE SPECIFIC Include Photos / s	ketches of the scene. Attach witness statements if
IN REVERSE ORDER, DESCRIBE THE INJUIT the injury/damage moving backward in time recollingury event:	onstruct the sequence of events lead	
Preceding event #1:		
Preceding event #2:		
Preceding event #3,4 etc.:		
COMPLETE FOR ALL CLAIMS THAT DES	OLUDE EIDET AID OD ADVAN	CED MEDICAL TREATMENT
Hire Date: Length of Emplo		
Time Shift began: am / pm.	Normal shift: Days of week	Hours per Day:
# Hours Worked in week, up to time of incid	lent Rate: of P	ay: \$
INCIDENT INFORMATION: What body parts where injured: (Be specific, If n	eeded draw a picture):	
Type of injury / illness: (check all that apply) [] Cut / Laceration [] Puncture Wound [] Heat / Cold Burns [] Heat / Cold stres [] Sprain / Strain [] Dislocation [] Other:	ss [] Physical Exhaustion [] Contusion / Bruise	[] Electrical Shock
What kind of First Aid /medical treatment was gi		
ON SITE:		
OFF SITE:		
TREATMENT INFORMATION: Facility Name: Da	ate of first visit:// Fo	
Name of treating physician or provider		
Was Employee Treated in the Emergency room?	[] Yes [] No Was Emplo	oyee Hospitalized over night? [] Yes [] No
Was a drug screen preformed at time of treatmen	t? [] Yes [] No Is there an	y expected lost time [] Yes [] No
What are the current work restrictions if any?		



CONFIDENTIAL

Incident Investigation Page 2 Involved Employee Name:

Factors Cont	tributing to Cause the Incident:	(Check all that apply)				
Actions:					ning raining ee e ring)	
Possibility of i	incident happening again: [] Hig	gh [] Moderately high [] Average	[] Low	[] Unlikely	Ÿ	
Tracking #	CORRECT	TIVE ACTIONS	Issued To	Due Date	Completed	
NOTE: If the ir	ncident was caused by faulty equipmo	ent submit a Safety Maintenance Work Order	•			
	Attach addition	al pages as necessary. Page	of	_		
BUY-OFF:						
Investigating	Supervisor:			Date:/	. /	
Employee:				Date: /	_/	
Operations M	anager:			Date: /	_/	
Safety Manag	fety Manager: Date://					



Property Damage Investigat	ation
-----------------------------------	-------

Case	#:			

All reports must be signed by a supervisor, the involved employee and must be bought off by the operations and the safety managers. This investigation must be completed within 3 days of the incident with subsequent review by the safety committee.

COMPLETE FOR: (CLOSE CALL AND ACTUAL PROPERTY DAMAGE)

INVOLVED EMPLOYEE INFORMA	ATION:		
Name	Area / I	Department:	Incident Date: / /
Property/Equipment Damaged			
Make	_Model	Year	Damage Estimate
DESCRIPTION OF DAMAGE: (Inc	lude		
Photo			
DESCRIBE HOW THE INCIDENT	OCCURRED: (BE SPEC	IFIC Include Photos / scene	e sketches, witness statements, etc)
-			
-			
IN REVERSE ORDER, DESCRIBE with the damage occurrence move b			S LEADING UP TO THE INCIDENT. (Start nts leading up to the damage.)
Preceding event #1:			
Preceding event #2:			
Preceding event #3:			
Preceding event #4:			



Incident Investigation Page 2

Involved Employee Name:_____

Factors Contributing to Cause the Incid	ent: (Check all that apply)			
Actions: [] Failure to follow policy / training [] Horseplay [] Operating equipment without authority [] By-passing safety device [] Using equipment improperly [] Using defective equipment [] Servicing equipment while in use [] Failure to properly use PPE [] Inattentiveness / Distraction [] Under the influence [] Safety Rule violation [] Improper lifting [] Unsafe acts of others [] Other: Explain:	Conditions: [] Poor workstation design or layout [] Congested work environment [] Hazardous substance present [] Fire or explosion hazard [] Improper tool or equipment used [] Insufficient guards / safety interlocks [] Slippery conditions [] Defective tools, equipment, materials [] Restricted motion [] Inadequate lighting / Ventilation [] Excessive noise [] Poor house keeping [] High or low temperature [] Other:	[] Rules no [] Hazards [] Insuffici [] Inadequ [] Insuffici [] Insuffici [] Unsafe o [] Inadequ [] Inadequ [] Inadequ [] Inadequ	written procedu of enforced not identified dent worker train ate supervisor tr ence of employe dent supervision design (engineer ate supervision ate work standar stic scheduling	ning aining ee e
Explain:				
ROOT CAUSES: (Identify all root causes of	this incident)			
Possibility of incident happening again: [High [] Moderately high [] Average	[] Low	[] Unlikely	7
	1		1	
Tracking # CORF	RECTIVE ACTIONS	Issued To	Due Date	Completed
NOTE: If the incident was caused by faulty equ	ipment submit a Safety Maintenance Work Order,			I
Attach addi	tional pages as necessary. Page	_ of	_	
BUY-OFF:				
Investigating Supervisor:			Date:/	/
Safety Manager:			Date: /	



[Enter Entity Name Here] Return To Work Program

- I. Policy: [Enter Entity Name Here] is committed provide a safe work environment to our employees. But if an employee becomes injured on the job, we will do everything we can to help the employee heal and return to work as quickly as possible. When employees are able to work and be a contributing team member, the injured employee heals faster, we are more productive and the morale of our entire organization is lifted.
- II. Workers Compensation Coordinator: [Enter Coordinator's Name Here] is our Workers Compensation Coordinator (WCC). [Enter Coordinator's Name Here]'s direct phone number is (XXX) XXX-XXXX, cell phone number is (XXX) XXX-XXXX, [Email]. The Workers Compensation Coordinator will help injured employees and their supervisors achieve the goal of helping injured employees get healthy and back to being a contributing team member.
- III. Medical Providers: If a life-threatening injury occurs, 911 should be called to access normal emergency care. Employees with routine, non-life-threatening injuries should be taken by their supervisor to:
 - a. [Network Provider Occupational Medicine Clinic address. List of Network Providers is attached.]
 - b. If the Network Provider is not available (after hours, etc.), call the Workers Compensation Coordinator to arrange medical care.
 - c. Employees must seek care from the provider designated by the WCC. Failure to do so may affect their workers compensation claim.
- IV. Injury Reporting: All injuries, no matter how minor, must be reported immediately to the employee's supervisor. Supervisors report these injuries to the Workers Compensation Coordinator, who begins a workers compensation claim and helps to arrange medical care. All injuries must be reported the day they occur. Failure to report injuries could jeopardize coverage of the injury.
- V. Post Injury Procedures: After receiving medical treatment, these steps must be taken:
 - a. Employee and his/her supervisor deliver all paper work from the medical provider to the Workers Compensation Coordinator.
 - b. WCC and the injured employee's supervisor review any restrictions given by medical provider with the injured employee's job description and determine if the employee's normal job meets the restrictions.
 If not, a Restricted/Light/Transitional Duty job will be assigned to accommodate the restrictions.
 (Sample light duty jobs are attached.)
 - c. Injured employees must comply with the restrictions they are given. Failure to do so could slow their recovery or cause further injury.
- VI. Restricted/Light/Transitional Duty: [Enter Entity Name Here] will accommodate restricted duty jobs for workers injured on the job. The WCC will work with the supervisor to design a work strategy that meets the injured employee's restrictions and accomplishes [Entity's Name]'s goals.
- VII. Follow Up: Injured employee's supervisor and the Workers Compensation Coordinator will regularly follow up with the employee and medical providers to make sure the employee is getting the care required, attending their medical appointments, complying with their restrictions and that any restricted duty assignments are helping the employee move closer to their regular job duties.
- VIII. Interaction With Adjusters: One of the best ways to help an employee get healthy and return to work quickly is to communicate with adjusters who manage the workers compensation injury claim. They have access to resources and have a vast knowledge in how to help injured employees get better. Utah Local Governments Trust has partnered with Constitution State Services (CSS) to adjust claims. They can be reached at 800.243.2490.



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Driver evaluation criteria using: Motor Vehicle Record (MVR)

All employees/volunteers operating city/county/district vehicles must have an acceptable MVR/driver evaluation. Borderline evaluations require top management approval with probationary status.

MVRs for all drivers will be screened at hire and annually thereafter. Annual evaluations shall take into consideration work related motor vehicle incidents not reported to the DLD.

Acceptable, Borderline and Unacceptable MVRs are defined using the following criteria:

- ➤ Any "major violation" is *unacceptable*.
 - Major Violations:
 - Driving under the influence of alcohol/drugs
 - Failure to stop/report an accident
 - Reckless driving/speeding contest
 - Driving while impaired
 - Making a false accident report
 - Homicide, manslaughter or assault arising out of the use of a vehicle
 - Driving while license is suspended/revoked
 - Careless driving
 - Attempting to elude a police officer
 - Others as determined by management

Moving Violations	At-Fault Accidents				
, 1010010115	<u>0</u>	1	2	<u>3</u>	
0	Acceptable	Acceptable	Borderline	Unacceptable	
1	Acceptable	Acceptable	Borderline	Unacceptable	
2	Borderline	Borderline	Unacceptable	Unacceptable	
3	Unacceptable	Unacceptable	Unacceptable	Unacceptable	
4	Unacceptable	Unacceptable	Unacceptable	Unacceptable	

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Driver Qualification (Sample Policy):

Safety is critical to our operations, therefore all employees or volunteers operating (*city/county/district name*) owned vehicles or who operate any vehicle while conducting business for or on behalf of (*city/county/district name*) must be qualified as an "Acceptable" driver per this Driver Qualification Policy prior to operating said vehicles on any public roadway.

Drivers, or potential drivers' MVR (Motor Vehicle Record) will be screened pre-hire and monitored thereafter. Drivers will be qualified as "Acceptable," "Borderline" or "Unacceptable." Drivers whose qualification is "Borderline" will require approval from the (*Top Management Position*) before operating a vehicle on public roadways while conducting, or traveling for (*city/county/district name*) business. Drivers with a "Borderline" qualification who are authorized by management to drive may do so on a probationary basis. Drivers with an "Unacceptable" qualification will not be allowed to operate (*city/county/district name*) owned vehicles or any vehicle while conducting, or traveling for (*city/county/district name*) business.

All drivers must posses a valid Driver License with endorsements appropriate for the vehicles to be operated. The driver qualification evaluation will be based on the driver's MVR and other work related motor vehicle incidents, whether or not the incident is reported to the DLD (Driver License Division) and recorded on the driver's MVR. All violations or incidents recorded on the MVR, whether they occurred on the job or not, are included in the driver qualification evaluation.

"Acceptable", "Borderline" and "Unacceptable" qualification will be determined using the following criteria:

Moving Violations	At-Fault Accidents			
Violations	0	1	<u>2</u>	<u>3</u>
<u>0</u>	Acceptable	Acceptable	Borderline	Unacceptable
1	Acceptable	Acceptable	Borderline	Unacceptable
2	Borderline	Borderline	Unacceptable	Unacceptable
<u>3</u>	Unacceptable	Unacceptable	Unacceptable	Unacceptable
<u>4</u>	Unacceptable	Unacceptable	Unacceptable	Unacceptable

Any single major violation may result in an "Unacceptable" qualification as determined by (*top management*). Major violations include the following or an equivalent:

- Driving under the influence of alcohol/drugs
- Failure to stop/report an accident
- Reckless driving/speeding contest
- Driving while impaired
- Making a false accident report
- Vehicular homicide, manslaughter or assault
- Driving while license is suspended/revoked
- Careless driving
- Attempting to elude a police officer
- Other violations as determined by management

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The Sanitary Sewer Management Program requirement is only applicable if your entity owns a sewer system. If your entity owns the sewer system but contracts with a third party for system maintenance, this section still applies.

- 1. Submit a copy of your Sanitary Sewer Management Plan (SSMP). Refer to the sample program on the following pages. This sample is made available by the State of Utah and gives detail and form for preparing your entity's SSMP
- 2. Submit a summary of your completed manhole sewer inspection. This summary must confirm inspection of ALL manholes in the system during the year, total number of manholes in your system and dates on which inspections were conducted. If you contract for the maintenance of your sewer system, your personnel will most likely still need to complete this inspection. The Trust can provide a manual and training on conducting the manhole inspections. A team of one or two employees should be able to inspect 70-100 manholes a day, making the time required to complete this task a matter of days for most systems. Large sewer operators with more complex maintenance systems in place may request the Trust to accept their existing program in lieu of this manhole inspection requirement.
- 3. Submit your best example (with documentation) of a backup prevented as a result of manhole inspections during the current year. A "backup prevented" is the identification and correction of a significant adverse conditions of a nature that if not addressed would constitute a high risk of imminent system backup. Documentation of this "best example" would include a written description of the location, suspected cause and nature of the identified adverse condition as well as an account of the corrective actions. Pictures will be an ideal addition to the documentation.
- 4. Tell us in your opinion the total number of sewer system backups averted in the past year through corrections of adverse conditions identified during manhole inspections. This would be the sum of adverse conditions identified and corrected that were of a nature that if not addressed would have likely resulted in a system backup.

[Public Entity] Sanitary Sewer Management Plan

Introduction		
	is a [public ent	tity] established in Utah
under the Utah State Code. [public entity] was established	in(year) and
provides sewage collection an	d/or treatment to	
	This Sewer System Mana	gement Plan (SSMP)
manual has been established	to provide a plan and schedule	e to properly manage,
operate, and maintain all parts	of the sewer collection syster	n to reduce and prevent
SSOs, as well as minimize imp	pacts of any SSOs that occur.	The Management for this
entity recognizes the responsi	bility it has to operate the sewe	er system in an
environmentally and fiscally re	esponsible manner. As such, th	nis manual will cover
aspects of the collection syste	m program necessary to provi	de such an operation. This
manual may refer to other prog	grams or ordinances and by re	eference may incorporate
these programs into this manu	ıal.	

Definitions

The following definitions are to be used in conjunction with those found in Utah Administrative Code R317. The following terms have the meaning as set forth:

- (1) "BMP" means "best management practice".
- (2) "CCTV" means "closed circuit television.
- (3) "CIP" means a "Capital Improvement Plan".
- (4) "DWQ" means "the Utah Division of Water Quality".
- (5) "FOG" means "fats, oils and grease". This is also referred to as a Grease Oil and Sand Program(GOSI).

- (6) "I/I" means "infiltration and inflow".
- (7) "Permittee" means a federal or state agency, municipality, county, district, and other political subdivision [public entity] of the state that owns or operates a sewer collection system or who is in direct responsible charge for operation and maintenance of the sewer collection system. When two separate federal or state agency, municipality, county, district, and other political subdivision of the state are interconnected, each shall be considered a separate Permittee.
 - (8) "SECAP" means "System Evaluation and Capacity Assurance Plan".
- (9) "Sewer Collection System" means a system for the collection and conveyance of wastewaters or sewage from domestic, industrial and commercial sources. The Sewer Collection System does not include sewer laterals under the ownership and control of an owner of real property, private sewer systems owned and operated by an owner of real property, and systems that collect and convey stormwater exclusively.
 - (10) "SORP" means "Sewer Overflow Response Plan"
 - (11) "SSMP" means "Sewer System Management Plan".
- (12) "SSO" means "sanitary sewer overflow", the escape of wastewater or pollutants from, or beyond the intended or designed containment of a sewer collection system.
- (13) "Class 1 SSO" (Significant SSO) means a SSO or backup that is not caused by a private lateral obstruction or problem that:
 - (a) affects more than five private structures;
 - (b) affects one or more public, commercial or industrial structure(s);
 - (c) may result in a public health risk to the general public;
- (d) has a spill volume that exceeds 5,000 gallons, excluding those in single private structures; or

- (e) discharges to Waters of the State of Utah.
- (14) "Class 2 SSO" (Non Significant SSO) means a SSO or backup that is not caused by a private lateral obstruction or problem that does not meet the Class 1 SSO criteria.
 - (15) "USMP" means the "Utah Sewer Management Program".

General SSO Requirements

The following general requirements for SSO's are stipulated in R317-801 and are included here as general information.

- 1) The permittee shall take all feasible steps to eliminate SSOs to include:
- (a) Properly managing, operating, and maintaining all parts of the sewer collection system;
 - (b) training system operators;
- (c) allocating adequate resources for the operation, maintenance, and repair of its sewer collection system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures in accordance with generally acceptable accounting practices; and,
- (d) providing adequate capacity to convey base flows and peak flows, including flows related to normal wet weather events. Capacity shall meet or exceed the design criteria of R317-3.
 - (2) SSOs shall be reported in accordance with the requirements below.
 - (3) When an SSO occurs, the permittee shall take all feasible steps to:
- (a) control, contain, or limit the volume of untreated or partially treated wastewater discharged;
 - (b) terminate the discharge;
- (c) recover as much of the wastewater discharged as possible for proper disposal, including any wash down water; and,
 - (d) mitigate the impacts of the SSO.

SSO Reporting Requirements

R317-801 stipulates when and how SSO's are reported. Following are those reporting requirements as of XX/XX/201X.

SSO REPORTING. SSOs shall be reported as follows:

- (1) A Class 1 SSO shall be reported orally within 24 hrs and with a written report submitted to the DWQ within five calendar days. Class 1 SSO's shall be included in the annual USMP report.
- (2) Class 2 SSOs shall be reported on an annual basis in the USMP annual report.

ANNUAL REPORT. A permittee shall submit to DWQ a USMP annual operating report covering information for the previous calendar year by April 15 of the following year.

Sewer Use Ordinance

[Public Entity] has a sewer use [ordinance, rules, or regulations] that has been adopted by the governing body. This [ordinance or rules] contains the following items as stipulated by Utah State Code R317-801:

- 1. Prohibition on unauthorized discharges,
- 2. Requirement that sewers be constructed and maintained in accordance with R317-3,
- 3. Ensures access or easements for maintenance, inspections and repairs,
- 4. Has the ability to limit debris which obstruct or inhibit the flow in sewers such as foreign objects or grease and oil,
- 5. Requires compliance with pretreatment program [delete if no pretreatment program exists],
- 6. Allows for the inspection of industrial users, and
- 7. Provides for enforcement of for ordinance or rules violations.

The following elements are included in this SSMP:

- General Information
- Operations and Maintenance Program
- Sewer Design Standards
- Sanitary Sewer Overflow Response Plan
- Grease, Oil and Sand Interceptor Management Program
- System Evaluation and Capacity Assurance Plan
- SSMP Monitoring and Measurement Plan
- Sewer System Mapping Program
- Basement Backup Program [Optional]
- No Fault Sewage Backup Claims Program [Optional\

This program is intended to be a guidance document and is not intended to be part of a regulatory requirement. As such, failure to strictly comply with documentation requirements is, in and of themselves, not a failure of the program's effectiveness. Documentation failures are intended to be identified during system self-audits and will be addressed as training opportunities. Significant system failures will be followed up with corrective action plans. This corrective action process will be implemented by all individuals involved in the SSMP program. Not all [public entity] employees will necessarily be involved in the collection system operations. As such, not all employees will receive program training. Finally, although not a part of this SSMP program, [public entity] is an active participant in the Blue Stakes of Utah Utility Notification system. This system, regulated under title 54-8A of the Utah State Code, stipulates utility notification of all underground operators when excavation takes place. The intent of this regulation is to minimize damage to underground facilities. [Public entity] has a responsibility to mark their underground sewer facilities when notified an excavation is going to take place. Participation in the Blue Stakes program further enhances the protection of the collection system and reduces SSO's.

[Public Entity]

SSMP – General Information

or council] on	•		ublic entity governing board
The responsible repre- regard to this SSMP is	` ' ' '	on and phone num	ber for [public entity] with

Description of Roles and Responsibilities

The following positions have the described responsibility for implementation and management of the specific measures as described in the SSMP.

[include specific public entity information below]

Manager

This individual is responsible for overall management of the sanitary sewer collection system. Responsibilities include working with governance to assure sufficient budget is allocated to implement the SSMP, maintenance of the SSMP documentation, development of a capital improvement program and general supervision of all staff.

Superintendent

This individual is responsible for daily implementation of the SSMP. This includes maintenance activities, compliance with SORP requirements, and monitoring and measurement reporting requirements.

Pretreatment Program Coordinator

This individual is responsible for implementation of the pretreatment program including the fats oil and grease program.

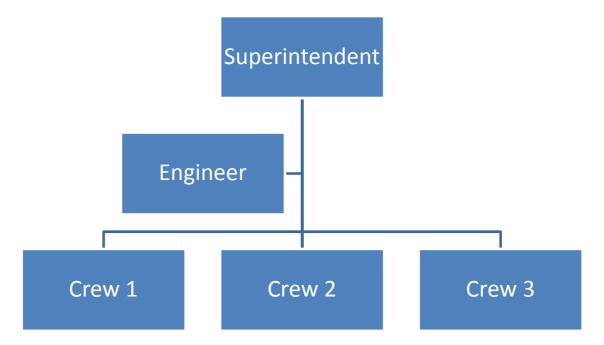
Engineer

This individual is responsible for the development and maintenance of collection system design standards, maintenance of collection system mapping and maintenance of the SECAP program.

[note that the above positions may be multiple people or it may be all one person depending on the size of the organization]

Organization Chart

Below is the organization chart associated with the SSMP [this could be a large chart or just one person depending on organization size]:



[Public Entity]

Operations and Maintenance Program

[Public Entity] has established this sanitary sewer system operations and maintenance program to ensure proper system operations, to minimize any basement backups or SSOs, and to provide for replacement, refurbishment, or repair of damaged or deteriorated piping systems. The combined maintenance program should insure that the environment and health of the public are protected at a reasonable cost for the end users. To this end, the following areas are described and included in this maintenance program [delete programs not desired or needed]:

- System Mapping
- System Cleaning
- System CCTV Inspection
- Pump Station/Pressure Lines Inspection
- Manhole Inspection
- · Defect Reporting
- Damage Assessment

System Mapping

An up to date map is essential for effective system operations. [Public entity] has assigned the mapping responsibility to the facility engineer [or other person this responsibility is assigned to] who will prepare and maintain current mapping for the entire sanitary sewer system. Mapping may be maintained on either paper or in a graphical information system (GIS) or a combination of both. Current mapping is available at the following locations:

•	 				
•	 			 	 -

Should any employee identify an error in the mapping, they should document the error on a defect report and give it to the engineer [or other responsible person].

System Cleaning

Sanitary sewer system cleaning is accomplished through various means and methods.

[Public entity] has established a goal to clean the entire system every five years[insert own goal]. Based on experience over the past 20 years, this frequency significantly reduces the number of basement backups, controls grease problems and flushes any bellies in the system. In addition [public entity] has a listing of identified hot spots which are maintained at a higher frequency. Systems which may have roots are mechanically rodded or hydraulically cut out and areas where restaurants are close together are hydraulically flushed with a high pressure jet truck. The following methods are employed to provide system cleaning:

[Public Entity] Hydraulic Cleaning Contractor Hydraulic Cleaning [if contractors are used] [Public Entity or Contractor] Mechanical Rodding. Chemical Root Control Chemical FOG Control

Cleaning records are maintained at	
	_[location of record]. Contractors are required to
provide cleaning records associated	with their work. Cleaning history may also be
entered into the GIS; however, this is	not always necessary. Should the cleaning
process identify a serious defect, the	problem should be reported on a Defect Report
Form. The [responsible position] sh	ould be given the defect reports for further action.
The defect report should be specific	as to location and type of problem. A copy of the
Defect Report Form is included at the	e end of this narrative section. A summary of
cleaning activities shall be prepared	annually by the [responsible position] or designee
This summary will normally be prese	nted to
	[name of management position or
board/council]	

System CCTV Inspection

Closed Circuit TV inspections of the sanitary sewer system are used to assess pipe condition and identify problems or possible future failures which need current attention. The CCTV process also identifies the piping condition to allow for replacement prior to failure. Generally [public entity] will conduct CCTV inspection with [its own staff, contractor or both]. Inspections of the system will occur every 10 to 15 years [or other frequency]. This inspection frequency is based on the pipe aging process. As such, once the system has been inspected completely, change usually occurs gradually. CCTV will also be employed when a systems operation or capacity is questioned or

when an SSO occurs. Any defects identified during the CCTV process should be reported on a Defect Report Form and the form should be given to the [responsible position] for possible repairs. Documentation of CCTV activities will be maintained at _______. When contractors are employed to inspect the sanitary sewer system they will be required to submit records for their work. The [responsible position] will prepare an annual summary of CCTV completed for that calendar year.

Pump Station/Pressure Line Inspection [delete if there are no pump stations]

Staff inspects each pump station at least weekly for correct operations. Included in this inspection is a visual observation of the pressure line alignment in order to insure there are no leaks. Pump stations are also monitored via remote monitoring [if available]. Operators inspecting the pump stations will complete the included Pump Station Inspection Form. Should a problem be encountered that cannot be corrected during the inspection, a Defect Report Form should be completed and the form given to the [responsible position]. If the defect has the potential to cause a sanitary sewer overflow, immediate action should be taken to insure no overflow occurs. During the inspection of the pressure sewer alignment, operators should be looking for unusual puddling. If a potential leak is identified a Defect Report should be completed and given to the [responsible position] for further action. An evaluation will be made to determine if there is an actual leak and appropriate action taken.

Manhole Inspection

[Public entity] schedules annual inspection of the sanitary sewer manholes (M/H). The M/H inspection involves the identification of foreign objects and surcharging that may be present. Crews inspecting the manholes will be given maps by the District Engineer who will monitor the progress and completeness of the inspection process. When a potential defect is identified the manhole should be flagged. Flagged manholes should be checked by an operator within several days to determine further action. If, during the inspection process, the inspection crew believes a problem is imminent, they should immediately cease inspecting and inform the [responsible position] of the problem. A cleaning crew should be dispatched immediately to ensure correct system operations. All inspection records should be retained for documentation of work performed.

Defect Reporting

Defect Reports generated through the cleaning, CCTV inspection, pump station inspection or manhole inspection programs will be prioritized for correction by the

[responsible position]. Any defects which have the potential for catastrophic failure and thus create a sanitary sewer overflow should be evaluated immediately and discussed with the [responsible position] for repair. Repair methods may include:

Spot Excavation Repairs
Spot Band Repairs
Segment Excavation Replacements
Segment Lining
Manhole Rehabilitation

When a defect is not flagged for immediate repair, it should be considered for placement on the "hot spot" list. This will allow for vigilant maintenance to ensure failure and a subsequent sanitary sewer overflow do not take place. Defect reports should be used in the Budget process to determine what financial allocation should be made in the next Budget year. The [responsible person] should include outstanding defects in the annual report.

Collection System Damage

Collection damage may occur as a result of multiple factors, some identified as a result of inspection activities and some identified as a result of damage by third parties such as contractors.

Damage Identification

The identification of system damage which may result in an SSO or basement backup is important to prevent environmental, public health, or economic harm. Identification of damage may be from either internal activities or external activities.

Internal activities which may result in the identification of damage include the following:

- 1. Collections Maintenance Activities
- 2. CCTV Inspection Activities
- 3. Manhole Inspection Activities

These three activities are discussed in this Maintenance Program and the identification of damage will result in the generation of a Defect Report.

Generally, damage identification is an iterative and continuous process.

External activities which identify damages include:

- 1. Contractor Notification of Damage
- 2. Directional Drilling Notification of Damage
- 3. Public Damage Complaints

All three of these notifications generally require immediate response. Staff should respond and evaluate the seriousness of the damage and the effect on the environment. Damages which include a release to the environment should be handled in accordance with the SORP. Damages which cause a basement backup should trigger the Basement Backup program. Damages which remain in the trench should be de minimus and do not require more action than the repair of the damage.

Whatever the cause of collection system damage, the response should be expeditious to prevent environmental or economic harm. District staff should consider all damages an emergency until it is shown by inspection to be a lower priority.

Damage Response Actions

When damages occur in the collection system, the following actions help define the path staff should take. These action plans are not inclusive of all options available but are indicative of the types of response that may be taken.

Stable Damage

Inspection activities may show a system damage which has been there for an extended period of time. Such damage may not require immediate action but may be postponed for a period of time. When stable damage is identified and not acted upon immediately, a defect report should be prepared. If such a defect is identified and repaired immediately, a defect report is not needed. An example of stable damage could be a major crack in a pipeline or a severely misaligned lateral connection where infiltration is occurring.

Unstable Damage

Unstable damage is damage which has a high likely hood that failure will

occur in the near future. Such damage may be a broken pipe with exposed soil or a line which has complete crown corrosion. In these cases, action should be taken as soon as there is a time, a contractor, materials and other necessary resources available. When such unstable damage is identified, if possible, consideration should be given to trenchless repairs which may be able to be completed quicker than standard excavation. Immediately after identification the Manager should be contacted to review and take care of budget considerations.

Immediate Damage

When a contractor or others damage a collection line such that the line is no longer capable of functioning as a sewer, this immediate damage must be handled expeditiously. Such damage allows untreated wastewater to pool in the excavation site, spill into the environment or possibly backup into a basement. Under such conditions priority should be given to an immediate repair. Since excavation damage may be a result of contractor negligence or it could be a failure of [public entity] to adequately protect the line by appropriately following the Damages to Underground Utilities Statute 54-8A, priority should be given to effecting a repair and not to determining the eventual responsible party.

As can be determined from the above action plans, priority should always be preventing SSO's and attendant environmental damage, to prevent basement backups and financial impacts, and to prevent public health issues.

[Public Entity] Sanitary Sewer System Defect Report

		Date:	
		Time:	
Location of Defect:	:		
Identified by:			
Description of Defe	ect:		
			_
	_		
Urgency of Needed	Corrective Action:		
Immedi	ate Action Required:		
Repair	or Correct Soon:		
Problen	n Stable:		
No Imm	nediate Action Needed:		
Recommended Rem	nedial Action:		

[Public Entity]

Sewer Design Standards

Included [or by reference] in this section are the sanitary sewer design standards for [public entity]. These design standards are intended to be used in conjunction with Utah Administrative Code R317-3. Where a conflict exists between these two standards, the Administrative Code shall prevail.

[The design standards for the public entity should be included with this introduction. If the public entity is small and does not have its own standard, the public entity may default to R317-3 as performance standards.]

[Public Entity]

Sanitary Sewer Overflow Action Plan

Whenever sanitary sewage leave the confines of the piping system, immediate action is necessary to prevent environmental, public health or financial damage from occurring. In addition, quick action in normally needed to mitigate damage which may have already occurred. For the purpose of this section, the following are part of the emergency action plan.

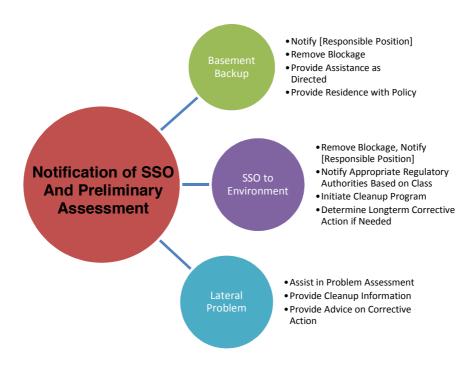
- 1. Basement backups
- 2. Sanitary sewer overflows
- 3. Sanitary sewer breaks which remain in the trench
- 4. Sewer lateral backups

All of the above conditions are likely to cause some damage. Each should be treated as an emergency, and corrective actions taken in accordance with [public entity] directions. Items 1 & 2 above should be reported immediately based on whether they constitute a Class 1 or Class 2 SSO. As stated in the definition section of the SSMP Introduction, a Class 1 SSO is an overflow which affects more than five private structures; affects a public, commercial or industrial structure; results in a significant public health risk; has a spill volume more than 5,000 gallons; or has reached Waters of the State. All other overflows are Class 2 SSO's. All Class 1 SSO's should be reported immediately. Class 2 SSO's should be documented and reported in the annual SSMP report and included in the Municipal Wastewater Planning Program submitted to the State. Item 3 may be reported to the local health department if, in the opinion of the responsible staff member there is potential for a public health issue. An example of where a public health issue may be present is when an excavator breaks both a sewer and a water line in the same trench. In such cases, the local health department representatives should be contacted and the situation explained. If the health representative requests further action on the part of the District, staff should try and comply. If, in the opinion of the responsible staff member, the health department request is unreasonable. The Manager should be immediately notified. Care should always be taken to error on the side of protecting public health over financial considerations. When a basement backup occurs, the staff member responding should follow the Basement Backup Program procedures. backups, while the responsibility of the property owner, should also be treated as serious problems. Care should be taken to provide advice to the property owner in such cases, but the property owner is ultimately the decision maker about what actions should be

taken.

Response Activities

There are specific steps that should be followed once a notification is received that an overflow may be occurring. The following figure outlines actions that could be taken when the [public entity] receives notice that a possible overflow has or is occurring.



General Notification Procedure

When a Class 1 SSO occurs specific notification requirement are needed. In such cases the following Notification procedure should be followed and documented. Failure to comply with notification requirements is a violation of R317-801.

Agency Notification Requirements

Both the State of Utah Division of Water Quality and the local health department should be immediately notified when an overflow is occurring. Others that may require notification include local water suppliers, affected property owners and notification may be required to Utah Division of Emergency Response and Remediation if hazardous materials are involved. The initial notification must be given within 24 hours. However, attempts should be made to notify them as soon as possible so they can observe the

problem and the extent of the issue while the problem is happening. A notification form is provided to document notification activities. After an SSO has taken place and the cleanup has been done, a written report of the event should be submitted to the State DEQ within five days (unless waived). This report should be specific and should be inclusive of all work completed. If possible the report should also include a description of follow-up actions such as modeling or problem corrections that has or will take place.

Public Notification

When an SSO occurs and the extent of the overflow is significant and the damage cannot be contained the public may be notified through proper communication channels. Normally the local health department will coordinate such notification. Should [public entity] need to provide notification it could include press releases to the local news agencies, publication in an area paper, and leaflets delivered to home owners or citizens in the area of the SSO. Notification should be sufficient to insure that the public health is protected. When and if Federal laws are passed concerning notification requirements, these legal requirements are incorporated by reference in this document. In general, notification requirements should increase as the extent of the overflow increases.

Overflow Cleanup

When an overflow happens, care should be taken to clean up the environment to the extent feasible based on technology, good science and financial capabilities. Cleanup could include removal of contaminated water and soil saturated with wastewater and toilet paper, disinfection of standing water with environmentally adequate chemicals or partitioning of the affected area from the public until natural soil microbes reduce the hazard. Cleanup is usually specific to the affected area and may differ from season to season. As such, this guide does not include specific details about cleanup. The responsible staff member in conjunction with the State DEQ, the local health department and the owner of real property should direct activities in such a manner that they are all satisfied with the overall outcomes. If, during the cleaning process, the responsible staff member believes the State or the County are requesting excessive actions, the Manager should be contacted.

Corrective Action

All SSO's should be followed up with an analysis as to cause and possible corrective actions. An SSO which is the result of grease or root plug may be placed on the

preventative maintenance list for more frequent cleaning. Serious or repetitive plugging problems may require the reconstruction of the sewer lines. An overflow that results from inadequate capacity should be followed by additional system modeling and either flow reduction or capacity increase. If a significant or unusual weather condition caused flooding which was introduced to the sanitary sewer system incorrectly, the corrective action may include working with other agencies to try and rectify the cross connection from the storm sewer to the sanitary sewer or from home drainage systems and sump pumps. Finally, should a problem be such that it is not anticipated to reoccur, no further action may be needed.

[Public Entity] Log of Contact with Other Agencies/People

Location of SSO:	Date of SSO:

Agency	Phone Number	Contact Made Yes/No	Time	Remarks
Utah DWQ	801-536-4300 or 801-231-1769			
Local Health Department				
Utah DERR	801-536-4123			
Local Police Department				
Local Fire Agency				
Applicable Water Agency				
US EPA Region VIII	Consult with DWQ			

Other Contacts:

Yes/No	Time	Remarks

[Public Entity]

Grease, Oil and Sand Management Program

Purpose:

The purpose of this program is to provide for the control and management of grease, oil and sand discharges to the District collection system. This program will provide a means to reduce interference with the collection system operation and pass through at the treatment plant.

Regulatory Authority:

Regulatory authority to implement this program is found in the C	ode of Federal
Regulations in 40 CFR 403, General Pretreatment Regulations.	State authority for the
program is given in the Utah Administrative Code R317-8-8, Pre	treatment. Local
Authority is found in	

Program Implementation:

This program shall be implemented in such a manner as to minimize the impact on businesses which may be affected by this program. In all cases [public entity] will maintain a uniform decision making process. [Public Entity] shall allow for appeals of program requirements in accordance with the appeal process approved by [public entity].

The following steps detail the procedure that [public entity] personnel shall follow in implementing this program.

Evaluation:

[Public Entity] staff will evaluate an industrial user (IU) discharge to determine if grease, oil or sand management is required at the following

events:

- 1. Issuance of a construction or remodeling building permit.
- When the collection line in front of the business is CCTV inspected as part of the sanitary sewer system preventative maintenance program.
- When a downstream sanitary sewer pipeline plugs due to oil, grease or sand.

No further action will be taken if it is determined that no potential exists for significant enrichment of the wastewater with grease, oil or sand. Enrichment is defined as a discharge with greater volume or concentration of grease, oil or sand than that discharged from a typical residential connection. For oil and grease, the typical residential discharge has less than 100 mg/L of oil and grease for any sample taken. Greater concentrations would be enrichment. Also, a significant buildup of oil and grease in the lateral would indicate enrichment. Sand and dirt is not typically discharged from a residential connection. Any potential for sand or dirt discharge would be enrichment.

Implementation:

IU's which are determined to enrich or have the potential to enrich the wastewater with grease, oil, or sand will be required to development a management plan in accordance with the following tracks.

TRACK 1

This track is available for IU's which exist at the time of program implementation. However, not all existing IU's may be permitted to use it. Determination will be made on a case by case basis. IU's on this track will be permitted to either

pay a contractor or [public entity] to clean the main sewer line from their place of business to the nearest trunk line. A trunk line is any sewer line which has an inside diameter of eighteen inches or larger or has been classified as a trunk line by [public entity]. Cleaning frequency will be determined by inspections performed by the [public entity].

TRACK 2

This track requires the IU to install and maintain a grease, oil and/or sand trap on their premises. Quarterly cleaning reports may be required at the discretion of [public entity]. [Public entity] shall inspect and test the grease trap on a periodic basis. The following fees shall apply:

Inspection Fee \$XX.00
Testing Fee \$XX.00

Should the testing reveal grease and oil in excess of 100 mg/L, a fine of \$X.XX for each pound of oil and grease discharged for the past reporting period shall be assessed. The pounds of grease and oil shall be determined by using the following equation:

(Total Reporting Period water use in MG)(mg/L O&G - 100)(8.34)

The IU will also be ordered to return to compliance immediately. Retesting will be done within thirty days if the trap has not been cleaned and a cleaning report submitted. Another inspection and testing fee will be assessed. Should the test results still not comply with the 100 mg/L oil and

grease limit, enforcement will be escalated in accordance with the [public entity]'s Enforcement Response Plan. In addition, an entity which is frequently violating the 100 mg/L limit may be issued a pretreatment permit in order to further regulate the IU

Should the testing reveal TSS in excess of 250 mg/L, a fine of \$X.XX for each pound of TSS discharged for the past reporting period shall be assessed. The pounds of TSS shall be determined by using the following equation:

(Total Reporting Period water use in MG)(mg/L TSS - 250)(8.34)

The IU will also be ordered to return to compliance immediately. Retesting will be done within thirty days if the trap has not been cleaned and a cleaning report submitted. Another inspection and testing fee will be assessed. Should the test results still not comply with the 250 mg/L TSS surcharge limit, the IU will be placed on a continuous inspection, testing and the surcharge schedule for TSS.

By following the steps discussed above, [Public entity] hopes to maintain a collection system free from excessive backups and a treatment plant in compliance with UPDES discharge conditions.

List of Acceptable Entities That Recycle Oil and Grease

The following list of grease and oil recyclers should be given to all IU's who operate a grease trap. This list may not be all inclusive. Other recyclers may be used if it can be shown that they discharge of the waste appropriately.

Recycler	Phone Number	Address

[This GOSI program is optional for small agencies. Large agencies may use their own GOSI program.]

System Evaluation and Capacity Assurance Plan

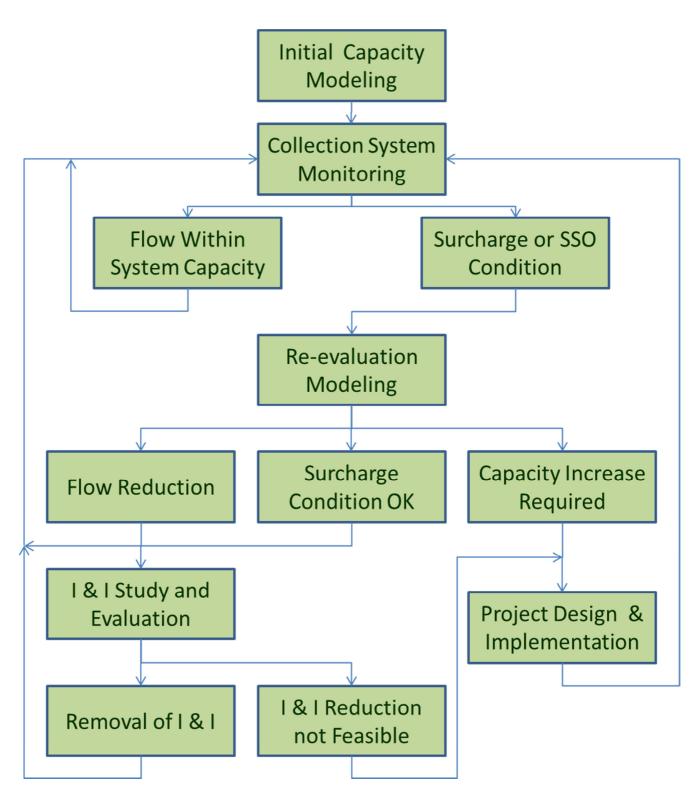
[Public Entity] believes that one of the keys to preventing sanitary sewer overflows is to evaluate system capacity and to monitor flows throughout the system in order to ensure that capacities are not exceeded. Should a collection sub-system exceed the capacity of the pipes, the system will be immediately re-evaluated and corrective action taken. The following elements are all part of [public entity] SECAP program.

- 1. Initial Capacity Modeling and Master Planning
- 2. Flow Monitoring
- 3. Surcharge Flow Analysis
- 4. Re-evaluation Modeling and Analysis
- 5. Flow Reduction Evaluation and Implementation
- 6. Capacity Increase Evaluation and Implementation

The actual implementation process associated with each of the elements above is shown in figure on the next page. This flow chart process forms the backbone of the SECAP.

Initial Capacity Evaluation

[Public Entity] has performed an analysis and modeling of each critical subsystem contained within its collection system. Subsystems are segregated based on the branching of the collection system. Trunk lines and collector lines are evaluated until the system reaches a point where less than 400 residential dwelling unit equivalents (RE) are upstream of that point in the system. The 400 RE point was chosen based on the minimum slope requirements of the State of Utah. An 8-inch pipe constructed on minimum slope will carry the flow from 400 RE based on 3.2 persons per dwelling unit, 75 gpcd and a peaking factor of 4. The RE equivalent is based typical Utah information and assumes the peaking factor will account for a reasonable amount of inflow and infiltration. If an area is known to have, or flow metering identifies, a significant amount of inflow and infiltration, additional evaluation will be needed. In these areas the capacity of an 8-inch pipe system may be significantly reduced below 400 RE.



SECAP Flow Chart

[Note that for a small community there will probably be no need for modeling since most or all sewer lines will have less than 400 homes on them]

In addition to developing an equivalent flow for a residential unit, consideration should also be given to time of concentration in the collection system. Based on typical diurnal flow patterns, if the transit time in the branch system is less than 2 hours, time of concentration can be ignored.

Flow Monitoring

[The public entity should include in this section the types of collection system flow monitoring that is conducted. If flow monitoring is done periodically using portable meters, the method to select the location should be discussed. If flow metering is only done on the influent to the treatment facility, that should be stated. If no metering is conducted, it is recommended that a visual inspection program should be included.]

Surcharge Flow Analysis

If any collection subsystem is identified as having any of the following problems the system will be evaluated to determine future action. These problems are:

- 1. Sanitary Sewer Overflow to the Environment
- 2. Sanitary Sewer Break Remaining in the Trench
- Basement Backup
- 4. Observed Subsystem Surcharging.

The flow evaluation may result in multiple conclusions, some of which may require further action. Possible conclusions and their further action are listed below. This list is not inclusive nor does it require the specific action detailed. These are given as possible examples and will be used by the [responsible position] to determine correct future action.

Flow Reduction Evaluation

Should excessive flows be identified during the surcharge analysis, the solution may be to proceed with an inflow and infiltration study with the ultimate goal of reducing flows. These flow reductions may be achieved by reconstruction of specific areas, internal spot repairs, removing illegal storm water or sump pump connections from homes or storm water systems, and system grouting. Tools used in flow reduction may include extensive in line camera inspection, smoke testing, dye testing, and increased inspection or flow monitoring.

Foreign Objects or Obstructions

There are multiple foreign objects which may be found in sewers. These may include objects knocked into sewers during construction, illegally placed in sewer manholes, roots, grease and soaps, bellies in piping systems, etc. Each of these problems should be found during the backup investigation and a plan developed to insure the problem does not reoccur. Types of action may include increased cleaning frequency, spot repairs, greater pretreatment activity, lining of pipes, and other corrective actions which resolve the problem.

Allowable Surcharging

Some piping systems may be able to accept surcharges without creating problems. Such systems may be deep and surcharging occurs below the level of basements or manhole rims, or they may be in areas where there are no connections. In such cases the resolution of the observed surcharge may just be additional monitoring.

Revised System Modeling

Where piping system problems cannot be resolved in a less expensive way, the system may be further modeled to determine upgrade needs. Modeling should include known flow information and future projections. Since the system has been shown to have problems, further modeling should be more conservative in flow projections. Revised modeling should follow the guides given next.

Re-evaluation Modeling and Analysis

When a subsystem needs demonstrate unresolvable problems by less costly means, the subsystem should be re-modeled and required action determined. Revised modeling may show that flow reduction may still be viable or it may show that the system can allow current surcharge conditions. Most likely, however, the modeling will normally form the basis for construction to enlarge the subsystem capacity. Modeling should be done either by

- 1. [Public entity] staff using commercially available software
- 2. [Public entity] staff using spreadsheet models
- 3. Engineering firms using available software or spreadsheets.

It is important to insure the modeling is comprehensive and includes all the potential flow

sources. While the current area zoning and land use planning should be used in the model development, care should be taken to discuss possible changes with appropriate officials. Where possible zoning changes appear likely, the model should be re-run with the revised zoning alternatives. Once a resolution has been selected, the resulting project should be placed on the capital improvement plan (CIP).

Capacity Increase Evaluation and Implementation

The capacity evaluation should be expedited based on the impact of the problem on the environment and the possible repeat of the overflow/backup/surcharging. Details on prioritization are given in the next section.

Systems requiring additional capacity should be engineered for expansion by qualified staff or engineering consultants. Project design should be based on acceptable engineering standards and should comply with State of Utah regulations found in R317-3. Easements should be obtained, where needed and the design should include an analysis of other utilities in the vicinity. Design review should be done by the applicable regulatory agency, as appropriate. A design report should be prepared for each project. Where appropriate, the subsystem modeling may be substituted for the design report.

Finalized projects should be placed on the CIP.

System Improvement Prioritization

The priority for improvement should follow the following general guidelines:

High Priority Projects

When there is significant potential for sanitary sewer overflows, or frequent basement backups, the improvement should be considered a high priority and any available budget should be allocated to the project.

Medium Priority Projects

Where the problem is infrequent and the possibility exists that it may not repeat in the near future, the priority for correction is medium. Medium priority projects may be delayed until appropriate budget is available or the priority is adjusted to high priority. Should an SSO or basement backup repeat in the same area, the priority should be immediately revised.

Low Priority Projects

If the observed problem is infrequent, there is possibility that it may not repeat in the near future and the possibility that increased flow in the subsystem is low, the correct priority is low. Low priority projects will be placed in the budget process and evaluated against other needs. These projects will eventually be completed, but the work is not prioritized above plant and equipment needs.

Capital Improvement Plan

The CIP is part of the [public entity]'s budgeting process to insure sufficient revenue to address identified weaknesses in the sanitary sewer system. Items which have been identified as needing a structural fix are placed on the CIP list and the cost for each estimated. Sources of funding should be identified for all high priority projects so that SSO's or other failures do not re-occur. Forecasts of available funding for medium and low priority projects should be made to facilitate future revenue needs.

SSMP Monitoring and Measurement Plan

The purpose of this plan is to provide appropriate monitoring and measurement of the effectiveness of the SSMP in its entirety.

Records Maintenance

[Public Entity] intends to maintain appropriate records on operations and maintenance of the sanitary sewer system to validate compliance with this SSMP. However, failure to meet standards set by State DWQ or other regulatory agency during an inspection does not constitute a violation of the SSMP. Rather, deficiencies identified during inspections should be viewed as an opportunity for improvement.

Operations Records

Operations records that should be maintained include the following:

- Daily cleaning records
- CCTV inspections records
- Manhole inspection records
- Hot spot maintenance list
- Spot repairs
- Major repairs
- System capacity information
- SSO or basement backup records including notification documents to appropriate agencies (call logs, etc.)
- Capital Improvement Plan

Records will be maintained by the [responsible position] in a central location. Records may be maintained either on an electronic record or as a paper record. The extent of the record should be sufficient to demonstrate the activity recorded was completed appropriately.

Performance Measurement (Internal Audit)

Periodically, but not less than annually, [public entity] should assess and audit the effectiveness of the elements of this SSMP. All elements should be reviewed for effectiveness as well as all records should be reviewed for completeness. An internal audit report should be prepared preferably annually but no less than once every five years which comments on the following:

Success of the operations and maintenance program

- Success of other SSMP elements
- Adequacy of the SECAP evaluations
- Discussion of SSO's and the effectiveness of the response to the event including corrective action
- Review of Defect reports and adequacy of response to eliminate such defects
- Opportunities for improvement in the SSMP or in SSO response and remediation

The annual audit report need not be extensive or long. It should, however be sufficient to document compliance with the standards set in the SSMP. The audit reports should be maintained in accordance with the [public entity]'s records retention schedule.

SSMP Updates

When a plan deficiency is identified though an audit, inspection or plan review, and the deficiency requires an SSMP update, the plan may be updated at the discretion of the [responsible position]. SSMP updates should be recorded in a revision index maintained by [responsible position].

SSO Evaluation and Analysis

At least annually in the internal audit and more frequently as needed, [public entity] will evaluate SSO trends based on frequency, location and volume. Trend evaluation will be empirical unless a large number occur sufficient to make a statistical analysis viable. If a trend is identified, a corrective action may be appropriate.

Public Communication and Outreach

[Public entity] will reach out to the public about the development, implementation and performance of the SSMP. This communication may be accomplished by any of the following methods:

- Public hearings
- Public meetings
- Newsletters
- Direct mailing
- Leaflets
- Other effective methods

[Public Entity] will accept comments, either written or verbal and will review such comments for applicability. Public interest may be difficult to generate, but should be sought, non-the-less.

Sanitary Sewer System Mapping

[This section contains a description on how the public entity maintains records on the location of sewer lines. Information on the specific type of maps available should be included. Mapping systems include:

- Computer based GIS system
- Paper based mapping system
- Trunkline maps and subdivision maps
- · Google Earth pictorial maps

The intent of the section is not to rate one mapping system above another but to encourage up-to-date maps of the sanitary sewer system. For a small system, Google Earth may be a way to show pictorially where the sewer lines are and to document the number of connections on a sub-system.]

Basement Backup Program

Basement backups are a serious impact on a home or business owner. As such, all reasonable efforts should be taken to prevent such backups from occurring. Sewer system backups are the result of several system problems. Such problems include any one or a combination of the following:

- Laterals serving real properties are owned by the property owner and lateral maintenance is their responsibility. Roots, low points, structural failure, and grease are primary problems lateral owners face.
- 2. Backups caused by main line plugs are usually caused by roots, grease, low points, foreign objects and contractor negligence.
- Piping system structural damage may cause basement backups.
 Such structural problems include age or deterioration damage, installation damage, excavation damage and trenchless technology damage.
- 4. Excess flow problems may surcharge a piping system and cause backups into homes. Excess flows usually occur when major storm waters inflow into sanitary sewers. Sanitary sewers are not designed for such flow. In addition, some homeowners may illegally connect foundation drains and sump pumps to the sanitary sewer system.

Basement Backup Response

When the [public entity] is notified about a basement backup, staff will log the complaint in a complaint log. The person receiving the call may log the backup complaint or may ask administrative staff to document the complaint.

All backup complaints shall be investigated by staff. If the investigation determines that

the case of the backup is only in the lateral, staff may offer technical information but should not take responsibility for cleanup or subsequent restoration.

When it is determined that the basement backup is the result of a mainline problem, [Public Entity] will follow the policy approved by its governing authority. A copy of this policy should be given to the home owner. It should be noted that all action [public entity] takes are on a no-fault basis. [Public entity] does not accept liability nor does it waive its governmental immunity.

Backup Prevention Design Standard

[Public entity] promotes system designs which minimize backups and insure proper operations. To this end [public entity] has a design standard for all system construction. In addition, [public entity] complies with state design standards contained in R317-3. Finally for laterals, the following policy applies:

Policy on the Installation of Backflow Valves

Reference Regulatory Documents:

The following regulations are referenced in the establishment of this policy:

- Utah Code Title 15A-2-103(c). This code section adopts the 2009 edition of the International Plumbing Code.
- The 2009 International Plumbing Code, section 715 Sewage Backflow.

[Public Entity[Policy:

- The State of Utah has adopted the International Plumbing Code(IPC) as its plumbing building standard;
- [Public entity] use the IPC as their statute for plumbing construction and installation;
- And the IPC requires the installation of a sewage backwater valve "where the overflow rim of the lowest plumbing fixtures are below the next upstream manhole in the public sewer."

Therefore, for new construction, [public entity] requires the installation of backwater valves as stipulated by the IPC already propagated for all new construction.

No-Fault Sewage Backup Claims Program

The purpose of this program is to assist in the cleanup of real and personal property, and/or compensate persons for the loss of real or personal property, destroyed or damaged as the result of a backup of [public entity] facilities, regardless of fault, within the restrictions, limitations and other provisions of this policy.

Cleanup of Real and Personal Property:

- (A) The [responsible position] may, in accordance with the [public entity]'s standard procurement procedures, engage the services of one or more cleanup contractors to perform cleanup services at the direction of the [responsible position] on an as-needed basis.
- (B) Upon discovering backup described in this Policy, a property owner should immediately notify the [responsible position] of such event.
- (C) Upon notification of the occurrence of the event, the [responsible position] may contact a cleanup contractor under contract with the [public entity] pursuant to subsection (A) above, and direct the cleanup contractor to perform all cleanup work at the premises, in accordance with established cleanup criteria.
- (D) In the event the property owner engages the services of a cleanup contractor prior to notifying the [responsible position] of the event, the [public entity] may reimburse the property owner for actual expenses incurred by the property owner, but only up to the amount the [public entity] would have paid its own cleanup contractor under subsection (C) above.
- (E) In the event any real or personal property cannot, in the reasonable judgment of the [responsible position], be restored to its pre-event condition, in accordance with the cleanup criteria, the [public entity] may pay to the property owner the estimated fair market value (not the replacement value) at the time of the event, of such real or personal property, with the exception that carpet and major appliances will be replaced with new like-kind items.
- (F) In no event will the [public entity] pay, or reimburse the property owner for the payment of special or consequential damages.

Establishment of Cleanup Criteria:

The [responsible position] may, from time to time, establish cleanup criteria which will

govern the [public entity]'s cleanup and payment responsibilities under this Policy. In establishing such cleanup criteria, the [responsible position] may give due consideration to generally available health guidelines, recommendations from governmental and academic experts, and other sources of guidance reasonably deemed by the [responsible position] to be balanced, unbiased, and protective of health and safety.

Application - Time Limitations:

Any request for reimbursement of cleanup expenses under this policy, or payment of fair market value, may be made by filing a written application in such form as prescribed by the [responsible position]. Such application must be submitted to the [public entity] [responsible position] within thirty (30) days after the occurrence of the event.

Qualification for Assistance:

An application or request for assistance or payment under this Policy may qualify only if the [responsible position], after due inquiry or investigation, makes an affirmative determination that the event was the result of a backup of [public entity] facilities, and that none of the following circumstances apply:

- (A) The loss was the result of a force majeure including but not limited to acts of God, acts of public enemies, insurrections, riots, war, landslides, lightning, earthquakes, fires, storms, floods, washouts, droughts, civil disturbances, explosions, acts of terrorism, sabotage, or any other similar cause or event not reasonably within the [public entity]'s control;
- (B) The loss was caused by either an act or omission of the property owner, the property owner's agent, or a member of the property owner's family or business:
- (C) The property owner failed to file a claim hereunder in a timely manner, or failed to comply with any other procedural requirements of this Policy;
- (D) The loss is the result of intentional or negligent acts of third parties; or
- (E) The loss is wholly covered by private insurance.

Reduction in Assistance:

The [public entity] may limit any assistance, or reduce any payment, under this Policy based upon any of the following:

- (A) The property owner did not act responsibly to prevent, avoid or minimize the loss;
- (B) The property owner is unable to fully substantiate or document the extent of the loss;

(C) The loss is partially covered by private insurance.

Maximum Payments:

Without the express action of the [public entity] Board of Trustees, no assistance or payment under this Policy may exceed any of the following:

(A)	dollars (\$XXXX) per application or location; or
•	dollars (\$XXXXXXXX) per incident. cur, the \$XXXXXXXX per incident limitation will be re assistance is requested unless additional funding is nority.

Payment Does Not Imply Liability:

Any assistance or payment made under this Policy shall not be construed as, and does not imply, an admission of negligence or responsibility on the part of the [public entity] for any damage or loss. Any assistance or payment made under this Policy is strictly voluntary on the part of the [public entity]. This Policy shall not in any way supersede, change or abrogate the state government immunity act, Utah Code Annotated, section 63-30-1 et seq., as amended, or its successor, and its application to the [public entity], or establish in any person a right to sue the [public entity] under this Policy. Any assistance or payment made under this Policy and accepted shall constitute a full and complete release of any and all claims against the [public entity], its officers, employees and agents arising from the incident.

Budget Expenditures:

The [public entity] authorizes a fund from which amounts may be drawn to make the foregoing assistance or payments. Such fund may be established from the ordinary rate structure of the [public entity].

Claims from Other Governmental Agencies:

Notwithstanding any other provisions of this Policy, no application shall be accepted from the United States or any of its agencies, the State of Utah or any political subdivision.

UTAH LOCAL GOVERNMENTS TRUST

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Land-Use Training

Liability claims resulting from land use decisions can be very complicated and expensive cases to defend. It is important that municipal and county officials as well as lay commissioners and board members receive sufficient training regarding legal and other relevant considerations associated with the decisions they will make in fulfilling their duty. The land-use training requirement for the Loss Prevention Grant is designed to help ULGT members ensure efforts are made at the local level to address the risk associated with land-use decisions.

On Thursday March 21st 2013 the Trust's Loss Prevention Department will host and record a webinar titled "Land Use and Property Rights". Future webinars will also be broadcast and recorded, that will cover a variety of related topics. These webinars will be available and maintained on the Trust's training website following each broadcast. These recordings will be conveniently available 24/7 for viewing by ULGT members and their lay board and commission members. Due to the convenience, variety and ready availability of ULGT and other trainings, it will be required that all land-use related commissioners/board members participate in a live or recorded training each year.

Another resource for training is through the Utah League of Cities and Towns (ULCT) Land-Use training program. The League provides valuable training at various locations around the State during the year and also has other pertinent resources available on their website.

The webinar presented on 3/21/13 and many subsequent webinars will be presented by Brent Bateman and/or Jim Wright, attorneys from the Utah Office of the Property Rights Ombudsman--a neutral, non-partisan division of the Utah Department of Commerce. The Ombudsman's Office works with many ULGT members to resolve property disputes. During live broadcasts you will have the ability to pose questions, and from recorded trainings you will receive contact information for experts who can assist with questions associated with the training.

When submitting your Loss Prevention Grant Application, simply attach a roster of your Land-Use Commissioners/Board members along with the Presentation Title, Location, Date and Name of the person conducting the training each attended.

The Utah Local Governments Trust's webinar recordings, online training, and information about other available training programs can be found at; http://www.utahtrust.gov/index2.asp?cat=training

Information and dates for League training is available at; http://www.ulct.org/ulct/land/trainingPresentations.html.